



Enabling conditions for RE/EE based employment and value creation

Good practices and lessons from the MENA
Lebanon

By Rani Al Achkar,
Senior Programmes Engineer
Secretary of the Board

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INTRODUCTION



Political
Framework

Renewable Energy Activities
Demand Side

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Management/Energy
Efficiency Activities

**Policy Paper for the
Electricity Sector**

(June 2010)

2009

**12%
commitment**

(Copenhagen Summit)

2010

2011

**The
National Energy
Efficiency Action Plan**

(November 2011)

EE lighting
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Energy Conservation Law
+++

Decentralized RE
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Public Street Lighting
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Wind Farms
+++

Solar Farms
+++

Hydropower
+++

Other Tech.
+++

Building Code
+++

Financing
+++

Capacity Building
+++

ESCOs
+++

EE Equipment
+++



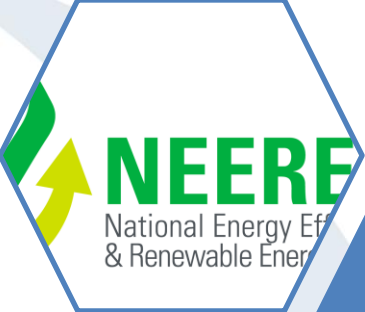
Pilot Projects

- Energy audits
- Distribution of energy efficient lamps (more than 3.1 million lamps)
- Pilot solar water heating projects (collective and individual)
- CEDRO photovoltaic systems for the public sector
- Solar street lighting projects (CEDRO, MEW UNIFIL)
- BRSS, Zahrani...



Standards and Testing

- Voluntary standards for refrigerators, AC split units, electric/Gas water heaters since 2008
- Mandatory standards for CFLs and SWHs since 2010
- Standards for SWHs currently being updated to be in harmony with Shamci
- Voluntary for PV – Currently proposed as mandatory to the board of LIBNOR (with technical assistance from MED-DESIRE project)
- Testing facility for lamps and SWHs operational at IRI
- Feasibility study for testing facility for PV ongoing (MED-DESIRE project)

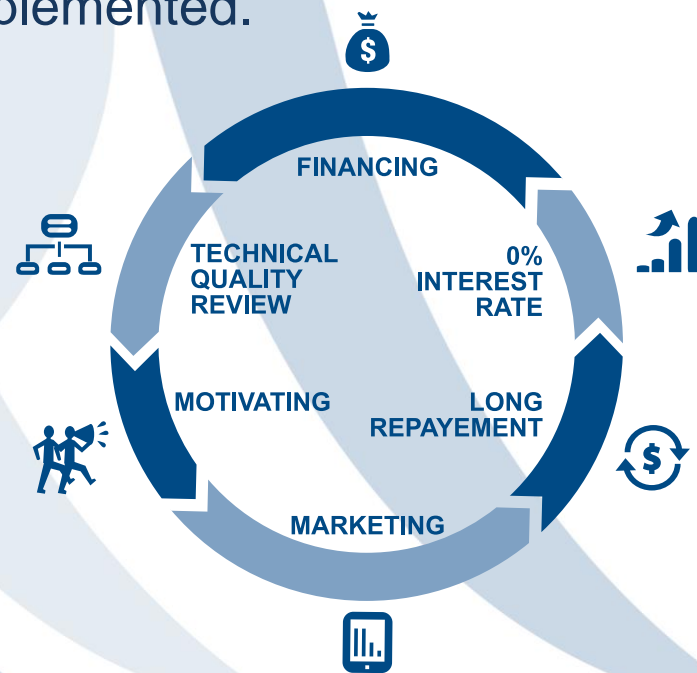


NEEREA

National Energy Efficiency and Renewable Energy Action (NEEREA)

NEEREA covers loans by any Lebanese commercial bank with 0.6% interest rate and a repayment period of up to 14 years, in addition to a grant amount released after the project is implemented.

- 340 approved projects
- +250 million USD
- 60 energy companies directly benefiting
- Suppliers of products
- Installers
- Consultants
-
-





Awareness raising campaigns

Awareness is essential to create the demand on RE and EE technologies.

- Several awareness campaign with the UNDP
- MEW awareness campaigns
- Currently: EU-SISSAF awareness campaign
- Currently: BDL-NEEREA communication campaign
- Currently EU – ENPI CBC MED – MED-DESIRE campaign



Training and capacity building

- Several trainings in the past
- Current direction is towards
 1. **Integrating EE and RE in curricula** (in coordination with the Directorate general for vocational and technical education in Lebanon)
 2. Having **certified EE and RE trainings** which opens more markets for the trained professionals.

Conclusion





LEBANESE CENTER FOR ENERGY CONSERVATION
المركز اللبناني لحفظ الطاقة

efficient resources, sustainable achievements

Thank You!

By Rani Al Achkar,
Senior Programmes Engineer
Secretary of the Board

Lebanese Center for Energy Conservation

LCEC Engineering Office - 240 Badaro Street
5th Floor, Nassif Karam Building
Park Beirut 2058 7703 – Lebanon
Email: rani.alachkar@lcecp.org.lb
Tel/fax: +961 (0)1 389 189
+961 (0)1 389 589